

ABSTRACT OF THE INVENTION

5 The present invention provides isolated modified inosine 5'-monophosphate dehydrogenase (IMPDH) polypeptides. These modified IMPDH polypeptides comprise a substitute oligo-peptide that replaces the subdomain region. The modified polypeptides of the invention bind to an inhibitor, such as MPA, and/or exhibit functional activity of wild-type IMPDH holo-enzyme.

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